



Innovations in Restoring Forests and Strengthening Economies:

Bioenergy &

Wood Products

Conference II

March 14-16, 2006 • Denver, Colorado

Hyatt Regency Colorado Convention Center
650 15th Street
303-436-1234

Monday, March 13th

Registration: 3:00 PM -7:00 PM in the *Capitol Foyer*

DAY ONE:

Tuesday, March 14th (set the stage):

The first day is used to set the context for the meeting. Emphasis will be placed on “keeping it local” and picking up where we left off with the 2004 Bioenergy Conference. The nature of woody biomass utilization pushes action to the local levels. It is difficult to move the supply and sometimes products from woody biomass, meaning that solutions have to be local and likely dispersed. The policy context (national, regional & state) will be presented so attendees can understand how to engage and take advantage of this context when they operate locally. This will all be presented and highlighted by the keynote – as well as some of the themes that regional committees compiled during the closing break-out sessions of the 2004 Bioenergy Conference.

Registration and Exhibitor Set-up: starts 7:00 AM in the *Capitol Foyer*

8:00 AM – 12noon: **Field Tour #1:**

The same field tour will be offered at the beginning and end of the conference as an option. Pre-registration is required for all tours. Please meet in the main lobby of the Hyatt Regency at 7:45 am for bus departure to tours.

Tour Menu:

SOLD OUT

o **Community Power Corporation** – Littleton, CO

During this tour attendees will be able to learn and observe the following:

The BioMax line of small modular biopower systems from Community Power Corporation that offers a new option for using variety of biomass residues/fuels to provide power and heat for rural enterprises, homes and small communities. The Bio Max line represents a new level of fully automated and environmentally friendly biopower systems designed for 21st century. On-going research and development at Community Power Corporation's product development

facility in Denver, CO continually upgrades and enhances the performance to increase the commercial viability of the system. There will be a limit of 30 registrants for this tour.

SOLD OUT

○ **Boulder County Biomass Heating Facility** – Longmont, CO
Boulder County has installed a central heating plant that uses biomass as its fuel source. The biomass is wood chips that the County harvests from its forest stand improvement and fire mitigation projects on County owned mountain properties. These wood chips are fed into a fuel box that combusts them very efficiently. This heats the hot water heating system for the complex of 4 buildings. Underground insulated pipes distribute the hot water throughout the site. This highly automated system will save the County money on heating costs compared to natural gas systems, reduce air pollution from burning the biomass in the forest, make use of a surplus of biomass that is currently being extracted from our forests, and is a renewable resource! There will be a limit of 30 registrants for this tour.

SOLD OUT

○ **National Renewable Energy Lab** – Golden, CO
The U.S. Department of Energy (DOE) has 12 national laboratories under its direction and NREL is the primary laboratory for renewable energy and energy efficiency research and development. Participants will learn about advances in bioenergy R&D while touring NREL's laboratories. This world-class laboratory consists of three centers, the National Center for Photovoltaics (NCPV) and the National Bioenergy Center <http://www.nrel.gov/biomass/national_bioenergy.html> (NBC) in Golden; and the National Wind Technology Center <<http://www.nrel.gov/wind/>> (NWTC) near Boulder. The laboratory showcases energy-saving technologies, which help our nation meet its energy and environmental goals. While on the NREL National Bioenergy Center tour, participants will see how NREL's research tools assist the bioenergy industry in the development of fuels, bioproducts, chemicals and electricity from biomass sources. There will be a limit of 60 registrants for this tour. **NREL security requirements will be observed. This includes foreign national data cards for all non-US citizens and a valid US driver's license for US citizens. More pre-requirement details will be provided upon registration for this tour.**

- 1:00 PM *Conference Welcome – Rebecca Watson, former Assistant Secretary, United States Department of the Interior*
- Introduction of Governor – Pam Inmann, Executive Director, Western Governors' Association*
- 1:15 PM *Host State Welcome – Governor Bill Owens, Colorado Governor*
- Dignitary Keynote –Mark Rey, Under Secretary Natural Resources and Environment*
- 2:15 PM *Conference Challenge – Stephen Smith, Executive Director, Southern Alliance for Clean Energy*
- 3:00 PM *BREAK/Exhibit Hall Open*
- 3:15 PM *Explore New/Recent Policy Developments (Panel)*
Mark Nechodom, PhD, Panel Moderator Sierra Nevada Research Center, U.S. Forest Service

2005 Energy Bill

John Ashworth, PhD, National Renewable Energy Laboratory

WGA Clean & Diversified Energy Initiative (Biomass Task Force report) and
National Biomass State & Regional Partnership (NBSRP) policy efforts

Ed Gray, President, Antares Group, Inc.

Review of State Level Efforts for Biomass Incentives

Fred Tornatore, TSS State Policies Consultant

Arthur "Butch" Blazer, New Mexico State Forester

5:00 PM *End of Day One*

6:00 PM *Welcome Reception/Exhibit Hall Open*

DAY TWO:

Wednesday, March 15th (deeper investigation)

The second day will be used to explore some of the challenges, opportunities, technologies and markets for biomass utilization, keeping in mind the local nature of much of the solution as presented in day one.

8:00 AM *Day Two Opening and Agenda Review*

Drew Bolin, Master of Ceremonies

Director of the Governor's Office of Energy Management and Conservation

8:15 AM *Scale of the Challenges That Confront Us: Current State of Nation's forest and Range Ecosystems, Current Biomass Inventory & Restoration Efforts*

Marcia Patton-Mallory, PhD, Panel Moderator Biomass and Bioenergy

Coordinator, USDA Forest Service, Office of the Chief

Hurricane Update: Lessons Learned From Hurricane and Other Catastrophic
Event Clean Up Efforts

Bill Jones, Alabama Forestry Association; Director, Alabama Loggers
Council

Stewardship Success Story in Arizona

Elaine Zieroth, Forest Supervisor, Apache/Sitgreaves National Forest U.S.
Forest Service

Estimating Accessible Biomass Volumes from Fire Hazard Reduction and Forest
Health Improvement Treatments in the Western United States

Jamie Barbour, Program Manager, Focused Science Delivery Program
Pacific Northwest Research Station, U.S. Forest Service

9:45 AM *BREAK/Exhibit Hall Open*

10:15 AM **Keynote: Renewable Energy for the 21st Century**
Gale A. Norton, Secretary, Department of the Interior

10:45 AM **Proven and Emerging Technologies for Conversion of Woody Biomass to Energy**
A look at proven biomass utilization technologies...heating, power, biofuels, and utilization. Emphasis on lessons learned.

Paul DeLong, Panel Moderator, State Forester & Forestry Division
Administrator, Wisconsin Department of Natural Resources – Division of Forestry

A New Vision for Value Added Forestry
Phillip C Badger, President and Chief Manager, Renewable Oil International, LLC

Emerging Bioenergy Technologies for Transportation Fuels
Richard Bain, PhD, National Renewable Energy Laboratory

11:30 AM **Innovations in Small – Diameter Forest Products Utilization**
John Shelly, PhD, Biomass Utilization Advisor, University of California, Berkeley

12:00 Noon **Luncheon Speaker**
Partnering with Industry to Bring Bioenergy Technology to Market
Michael Pacheco, PhD., Director of United States DOE National Bioenergy Center, National Renewable Energy Laboratory

CONCURRENT SESSIONS

Panel 1

1:30 – 3:15 PM **Markets and Opportunities: Woody Biobased Products**
Dr. Liam Leightley, Panel Moderator Professor, Head of Department of Forest Products, Director of Institute for Furniture Manufacturing and Management, Mississippi State University

Forest Fuels Reductions and Biomass-to-Energy; Market and Non-Market Value Analysis Indicates Public Benefits Are Underestimated
Larry Mason, Rural Technology Initiative, University of Washington

A Market Pathway to Forest Restoration
Cal Mukumoto, Forest Resource Director, Warm Springs Forest Products Industries

Current and Potential Markets for Pyrolysis Oils

Philip Steele, PhD, Department of Forest Products, College of Forest Resources, Mississippi State University

Panel 2

1:30 – 3:15 PM

Case Studies:

Small Diameter Forest Products Utilization Projects: Real World Examples & Lessons Learned

Craig Rawlings, Panel Moderator Small Wood Enterprise Agent, Montana Community Development Corporation

Integrated Harvesting and Utilization of Small Diameter Timber

Richard Dodge, Dodge Logging

Biomass Opportunities for Rural and Tribal Forest-based Communities

Brett KenCairn, Partner, Restoration Technologies Group, LLC; Director, Community Energy

Panel 3

1:30 – 3:15 PM

Case Studies:

Woody Biomass to Energy Conversion Projects: Real World Examples & Lessons Learned

Tim Maker, Panel Moderator Executive Director, Biomass Energy Resource Center

Aquila Co-Fire Project (Colorado)

Rick Cables, Regional Forester, R2, U.S. Forest Service,
Scott Haase, McNeil Technologies

Linda Anania, Deputy State Director, Bureau of Land Management

McNeil Generating Station (Vermont)

John Irving, Plant Superintendent, Joseph C. McNeil Generating Station,
Burlington Electric Department

Greenville Steam Company (Maine)

Scott Brown, CEO, Greenville Steam Company (Maine)

3:15 – 3:45 PM

BREAK/Exhibit Hall Open

3:45 – 5:30 PM

CONCURRENT SESSIONS

Panel 4

3:45 – 5:30 PM

Biomass Utilization Project Development – Steps to Consider

Tad Mason, Panel Moderator Managing Partner, TSS Consultants

Developing Commercial Scale Bioenergy Projects – Some Steps to Consider
Tad Mason, Managing Partner, TSS Consultants

Developing Community Scale Bioenergy Projects
Ravi Malhotra, Executive Director, International Center for Appropriate
and Sustainable Technology

Overview of the Biomass Financing Model: Financing Requirements & Capital
Markets Potential
Peter Luchetti, CEO, GFP Advisors

Panel 5

3:45 – 5:30 PM

***Energy, Environmental, and Economic Perspectives and Potential
Partnerships of Agriculture and Woody Biomass***

Panel Moderator: Dr. Richard Nelson, Director and Department Head,
Engineering Extension, Kansas State University

Potential Water Quality Improvement from Herbaceous Energy Crop Production
and Use as a Co-firing Fuel to Meet Various RPS Requirements in Kansas
Dr. Richard Nelson, Director and Department Head, Engineering
Extension, Kansas State University

25 x '25 Initiative

Ernest C. Shea, Project Coordinator, 25 x '25 Work Group

Community Ties to Sustainability through Bio-based Products and Bioenergy
Marcia Patton-Mallory, PhD, Biomass and Bioenergy Coordinator, U.S.
Forest Service, Office of the Chief

Co-firing Coal and Forest Biomass in Colorado: Bridging the Cost Gap Through
Renewable Energy Certificates (REC's)

Scott Haase, Renewable Resources Specialist, DOI Indian Affairs –
Division of Energy and Mineral Development

Panel 6

3:45 – 5:30 PM

Supply: Finding a Reliable and Consistent Supply

Ed Gee, Panel Moderator National Woody Biomass Utilization Team
Leader, National Forest Service

Locating and Procuring Woody Biomass Fuel for a 50 MW Anderson Based
Wood-fired Power Plants.

Steve Jolley, Fuel Procurement Manager, Wheelabrator Shasta Energy,
Inc.

Coordinated Resource Offering Protocol (CROP)
Catherine Mater, President, Mater Engineering, Ltd.,
Senior Fellow, The Pinchot Institute

Pellet Production and Supply
Rob Davis, Forest Energy

5:30 PM *End of Day Two*

6:00 PM *Reception/Exhibit Hall Open*

DAY THREE:

Thursday, March 16th (collaborations/partnerships):

8:00 AM *Day Three Opening and Agenda Review*
Joe Duda, Master of Ceremonies, Division Supervisor - Forest Management,
Colorado State Forest Service

8:10 AM *Issues and Public Perceptions; What Is The Common Ground? (Perspectives*
from Elected Official, Environmental Organization, and Industry)
Rick Handley, Panel Moderator Coalition of Northeastern Governors

Perspectives from Elected Officials, Environmental Organizatins, and Industry
John Heissenbuttel, Vice President, Forest and Wood Products, American
Forest & Paper Association
Andrew Merritt, Senator Allard's Office (CO)
David Hiller, Senator Salazar's Office (CO)
Todd Schulke, Forest Program Director, Center for Biological Diversity
Jim Walls, Executive Director, Lake County Resources Initiative

9:30 AM *BREAK/Exhibit Hall Open*

9:45 AM *Success on the Ground: Community Based Efforts That Are Making Progress*
Al Sample, Panel Moderator President, Pinchot Institute for Conservation

A Cohesive Strategy for Fire Protection, Forest Restoration and Economic
Stability

Frank Stewart, Counties' Quincy Library Group Forester, Board of
California Fire Safe Council

Mount Wachusett Community College: The Role of Biomass in Education,
Sustainability and Energy Security

Rob Rizzo, Director of Facilities Administration, Mount Wachusett
Community College, Massachusetts

Catherine Mater, President, Mater Engineering, Ltd.,
Senior Fellow – The Pinchot Institute

Fuels for Schools in Montana

11:30AM ***Closing Remarks***
Pam Inmann, Executive Director, Western Governors' Association

Bill Wilson, President, National Association of Conservation Districts

Jeff Jahnke, Director, Colorado State Forest Service

12 Noon ***CONFERENCE CLOSE***

Post-Conference Events (Thurs afternoon):

There will be two options for attendees at the end of conference for Thursday afternoon. The first option will provide regional geographic breakout opportunities to explore post-conference actions and further networking. The second will be another go around for the field tours.

1:00 – 5:00PM

REGIONAL BREAKOUTS

The Regional Breakout Sessions are designed to provide an opportunity for Conference attendees to meet with others from their region, learn what others are doing, and identify issues and opportunities. The Sessions will be lead by representatives of The Biomass Partnership, also known as the National Biomass State and Regional Partnership. The sessions will be facilitated and key topics recorded. The leaders will take responsibility for following up on actions the groups decide upon. Attendees are encouraged to bring descriptions of their biomass interests and activities and ideas for how we can work together to promote biomass applications in our respective regions.

Questions and suggestion can be sent to Gayle Gordon at ggordon@westgov.org.

Additional information on the Partnership can be found at www.eere.energy.gov/biomass/state_regional.html#regional.

- **Western and Pacific Regions** – co-lead: Gayle Gordon, Western Governors' Association; Western Regional Biomass Energy Program and co-lead: Jake Fey, WA State University; Pacific Regional Biomass Energy Program

- **Great Lakes Region** – lead: Fred Kuzel, Council of Great Lakes Governors; Great Lakes Regional Biomass Energy Program
- **Southeastern Region** – lead: Phil Badger and Kathryn Baskin, Southern States Energy Board; Southeast Regional Biomass Energy Program
- **Northeastern Region** – lead: Rick Handley, Council of Northeastern Governors; Northeast Regional Biomass Energy Program

OR

1:00 – 5:00PM

Field Tour #2:

The same field tour will be offered at the beginning and end of the conference as an option. Pre-registration is required for all tours. Please meet in the main lobby of the Hyatt Regency at 12:45 am for bus departure to tours.

Tour Menu:

○ **Community Power Corporation** – Littleton, CO

During this tour attendees will be able to learn and observe the following:

The BioMax line of small modular biopower systems from Community Power Corporation that offers a new option for using variety of biomass residues/fuels to provide power and heat for rural enterprises, homes and small communities. The Bio Max line represents a new level of fully automated and environmentally friendly biopower systems designed for 21st century. On-going research and development at Community Power Corporation's product development facility in Denver, CO continually upgrades and enhances the performance to increase the commercial viability of the system. There will be a limit of 30 registrants for this tour.

○ **Boulder County Biomass Heating Facility** – Longmont, CO

Boulder County has installed a central heating plant that uses biomass as its fuel source. The biomass is wood chips that the County harvests from its forest stand improvement and fire mitigation projects on County owned mountain properties. These wood chips are fed into a fuel box that combusts them very efficiently. This heats the hot water heating system for the complex of 4 buildings. Underground insulated pipes distribute the hot water throughout the site. This highly automated system will save the County money on heating costs compared to natural gas systems, reduce air pollution from burning the biomass in the forest, make use of a surplus of biomass that is currently being extracted from our forests, and is a renewable resource! There will be a limit of 30 registrants for this tour.

○ **National Renewable Energy Lab** – Golden, CO

The U.S. Department of Energy (DOE) has 12 national laboratories under its direction and NREL is the primary laboratory for renewable energy and energy efficiency research and development. Participants will learn about advances in bioenergy R&D while touring NREL's laboratories. This world-class laboratory consists of three centers, the National Center for Photovoltaics (NCPV) and the National Bioenergy Center <http://www.nrel.gov/biomass/national_bioenergy.html> (NBC) in Golden; and the National Wind Technology Center <<http://www.nrel.gov/wind/>> (NWTC) near Boulder. The laboratory showcases energy-saving technologies, which help our nation meet its energy and environmental goals. While on the NREL National Bioenergy Center tour, participants will see how NREL's research tools assist the bioenergy industry in the development of fuels, bioproducts, chemicals and electricity from biomass sources. There will be a limit of 60 registrants for this tour. **NREL security requirements will be observed. This includes foreign national data cards for all non-US citizens and a valid US driver's license for US citizens. More pre-requirement details will be provided upon registration for this tour.**